

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.

B.Sc. (PBPB) END SEMESTER EXAMINATIONS NOVEMBER - 2023

SEMESTER - IV

20UPBCT4008 - Plant Ecology and Environmental Biotechnology

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Give an account on various branches of ecology. State their role in detail.
2. Illustrate how biotic factor influences the environment.
3. What is the role of disturbance in succession?
4. Define phytogeography. Describe any two factors that determine phytogeography in details.
5. What is the value of biodiversity?
6. Describe the role of IUCN in conservation of ecosystem.
7. Ascertain the role of microorganism in bioremediation process.
8. Give an outline on three types of sewage treatment.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Comment on edaphic factor. Explain its role in plant diversity.
10. Discuss the characteristics feature of xerophytes. Infer how plants and animals do adopt the xerophytic conditions.
11. Compare the feature of tropical rain forest with grassland.
12. Differentiate in situ conservation approaches with ex-situ conservation approaches. Explain any two methods in each approaches in detail.
13. Biogas production is a kind of an anaerobic digestion. Justify.
